

01/13/14 Agenda

- Review Homework
 - Worksheet 5.3 day 7 - Graphing Special Cases
- Section 5.3 day 8 - Mixed Review
- Homework Worksheet 5.3 day 8 - Mixed Review
- **The Test scheduled for Thursday has been changed to a Quiz and will be this Wednesday.**

Warm Up - Homework out

Find the x and y intercepts of this equation:

$$4x + 3y = 24$$

$$4x + 3(0) = 24$$

$$\frac{4x}{4} = \frac{24}{4}$$

$$x = 6$$

$$4(0) + 3y = 24$$

$$\frac{3y}{3} = \frac{24}{3}$$

$$y = 8$$

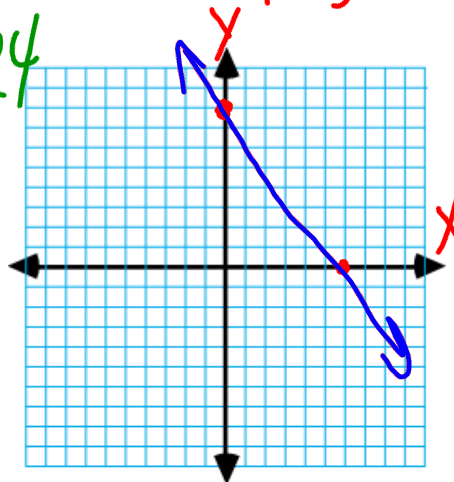
X-INT

Y-INT

X, Y

(6, 0)

(0, 8)



Slope-intercept form:

$$y = mx + b \quad \text{Where } m \text{ is the slope and } b \text{ is the y-intercept}$$

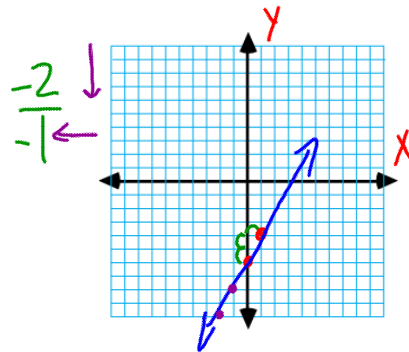
Steps when graphing:

1. Plot the y-intercept (b)
2. Plot the slope
 - positive (go up and to the right)
 - negative (go down and to the right)

Examples:

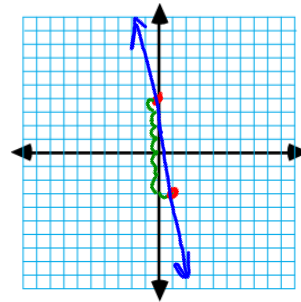
1. $y = 2x - 6$

$$m = \frac{2}{1} \quad b = -6$$



2. $y = -7x + 4$

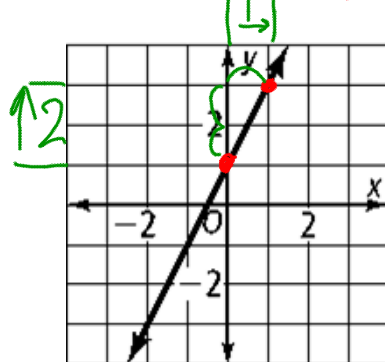
$$m = \frac{-7}{1} \quad b = +4$$



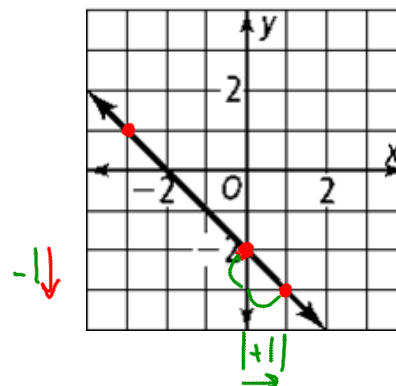
Write the equation of these lines:

(Hint: do it in $y = mx + b$ form)

$$m = \frac{2}{1} \quad b = +1$$



$$m = \frac{-1}{1} = -1 \quad b = -2$$



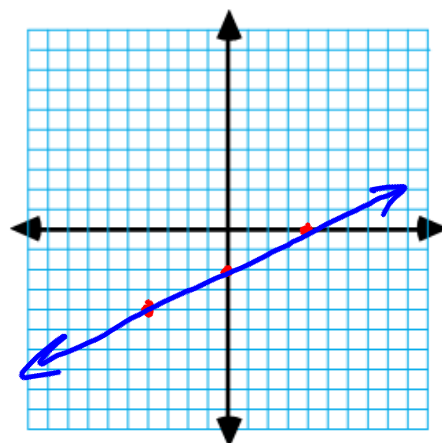
5.3 day 8 - Mixed Review

January 13, 2014

Graph from a Table:

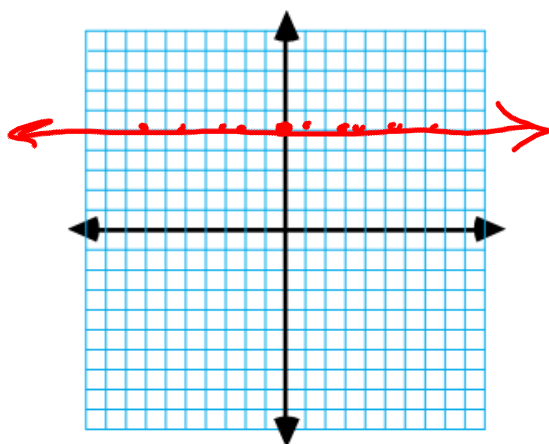
$$y = \frac{1}{2}x - 2$$

x	$y = \frac{1}{2}x - 2$	y	(x, y)
-4	$y = \frac{1}{2}(-4) - 2$	-4	$(-4, -4)$
0	$y = \frac{1}{2}(0) - 2$	-2	$(0, -2)$
4	$y = \frac{1}{2}(4) - 2$	0	$(4, 0)$



Graph Special Cases:

$$y = 5$$



$$x = -2$$

